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901 agtagaaatc agccgatgtc tgttctttgt gttcagtcct acagaaaaac tgagcaaaca
961 aggaagaccc ttgaacgaca tgaagcaaga gcttactaca gagtttagaa gcccagggt
1021 ggtggaggga ctagaggact tctccagaca tgattcttca tagagtggta atacaattta
1081 tagtacaatc acattgcttt gattttgtgt atatatatat ttatctgtgt ttttaagattg
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1201 a

Figure 1

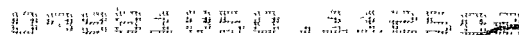
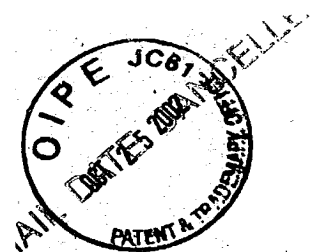


Figure 2



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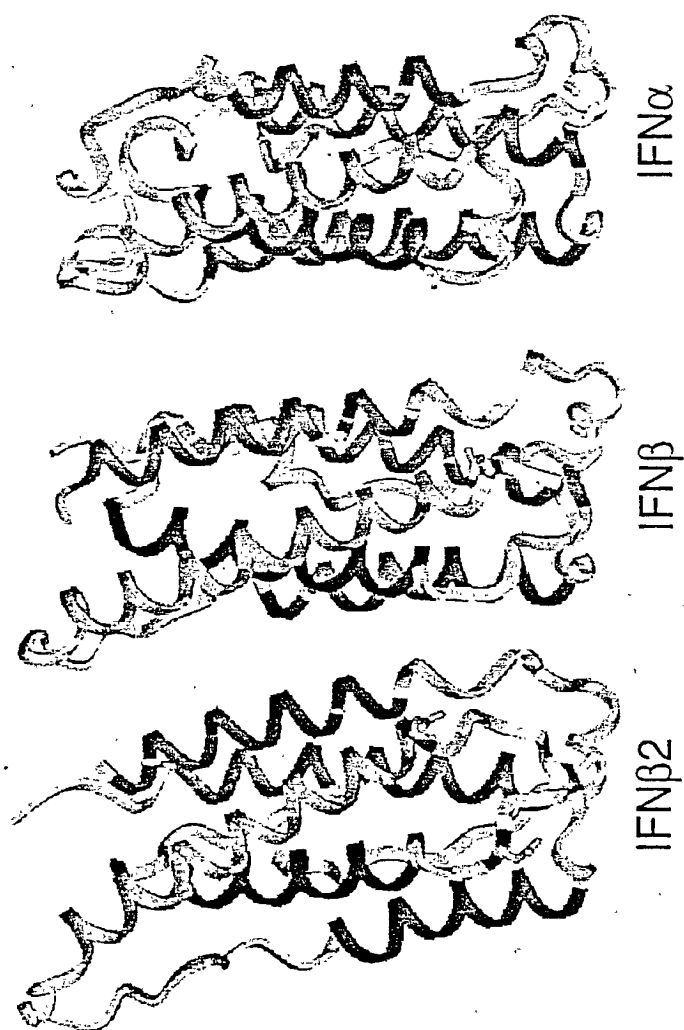
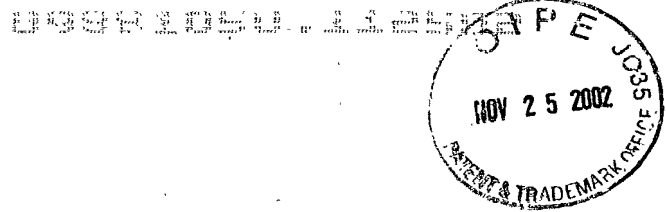
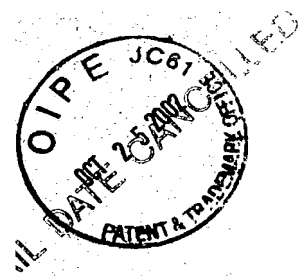


Figure 3



1 70

IFNB2 (1) MI~~IKHFFGT~~V~~LLAST~~T~~IFSLDLKLI~~IFQORQV~~NQESLKLNLKLIQ~~-T~~LSIQQCLPHRKNFLLPQKSLSP~~

IFNB (1) MTN~~KCLLO~~T~~ALLLCFSTTALS~~MSYNLLGFLQ~~RSSNFQCQKLLWQ~~NGRLEY--CL~~KDRMNF~~DI~~PEEIKQ~~L

IFNalpha8 (1) MALT~~FYLLVALV~~LSYKSFSS~~LGCDLPQTHS~~-LGNRRAL~~ILLAQM~~R-RIS~~PFSC~~LD~~RHDF~~FPQEEFDD

IFNalpha7 (1) MARS~~FSLMVVL~~LSYKSI~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~G-RIS~~PFSC~~LD~~RHDF~~FRFPQEEFDDG

IFNalpha6 (1) MAL~~PFALLMALV~~LSCKSS~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~R-RIS~~PFSC~~LD~~RHDF~~FRFPQEEFDDG

IFNalpha5 (1) MAL~~PFVLLMALV~~LSCKSI~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~G-RIS~~PFSC~~LD~~RHDF~~EGFPQEEFDDG

IFNalpha4b (1) MAL~~SFSLMAVL~~LSYKSI~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~G-RIS~~PFSC~~LD~~RHDF~~FGFPQEEFDDG

IFNalpha21 (1) MAL~~SFSLMAVL~~LSYKSI~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~G-RIS~~PFSC~~LD~~RHDF~~FGFPQEEFDDG

IFNalpha2 (1) MAL~~TFALLVAL~~LSCKSS~~CSVGC~~DL~~PQTHS~~-LGNRRAL~~ILLAQM~~R-RIS~~PFSC~~LD~~RHDF~~FGFPQEEFDDG

IFNalpha16 (1) MAL~~SFSLMAVL~~LSYKSI~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~G-RIS~~PFSC~~LD~~RHDF~~FGFPQEEFDDG

IFNalpha14 (1) MAL~~PFALMALV~~LSCKSS~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~R-RIS~~PFSC~~LD~~RHDF~~FGFPQEEFDDG

IFNalpha13 (1) MAS~~PFALLMV~~LSCKSS~~CSLGCDLPQTHS~~-LGNRRAL~~ILLAQM~~S-RIS~~PFSC~~LD~~RHDF~~FGFPQEEFDDG

IFNalpha10 (1) MAL~~SFSLMAVL~~LSYKSI~~CSLGCDLPQTHS~~-LGNRRAL~~ILLGOM~~G-RIS~~PFSC~~LD~~RHDF~~FRFPQEEFDDG

IFNomega1 (1) MAL~~LFPLLAALV~~MTSYSPV~~SGCDLPQTHS~~-LGNRRAL~~ILLHQM~~R-RIS~~PFSC~~LD~~RHDF~~FRFPQEEFDDG

IFNgamma (1) MKYT-SY~~LLAFQ~~CIVL~~SGCYQDPV~~KE---AEN~~LK~~KYF~~NAG~~---H--SDVADNGT~~LF~~--LGILK

Consensus (1) MAL F LLMALLVLS KS CSLGCDLPQTHS L NRR L LLAQM RISPFSCLD~~RHDF~~FPQEEFDDG

71 140

IFNB2 (70) QOYQK~~GHTLAILHEM~~LQOIFSLFRANISL~~DGWEENHTEKFLIQ~~LHQOLEYLEALM~~GLEAKLSG~~TLGSDN

IFNB (69) QOYQKEDAA~~LTIYEM~~LQOIFALFR~~ODSSSTG~~WNET~~IVENLLANVYHQ~~INHLK~~TVLEEKLEKED~~FRGKLM

IFNalpha8 (69) QOYQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSAALDETL~~LDEFYIELDQ~~QNLNDE~~SCVMQEVGVIESPLMYED

IFNalpha7 (69) HQFQKTQAI~~SVLHEM~~IQOIFNL~~FSTEDSSAAWEQ~~SLEK~~FSTELYQQLNDE~~ACVMQEVGVIESPLMYED

IFNalpha6 (69) HQFQKAEAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha5 (69) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSATWDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha4b (69) HQFQKTQAI~~SVLHEM~~IQOIFNL~~FSTEDSSAAWEQ~~SLEK~~FSTELYQQLNDE~~ACVMQEVGVIESPLMYED

IFNalpha21 (69) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSATWDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha2 (68) HQFQKAEAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha16 (69) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha14 (69) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha13 (69) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNalpha10 (69) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

IFNomega1 (69) SQLOKAHV~~MSVLHEM~~LQOIFSLF~~HTERS~~SSA~~WNMTLLDQ~~LHTGLHQ~~QQLQHL~~ETC~~LLQV~~GE~~GESAGA~~ISS

IFNgamma (58) NWKEES~~DRKIMQ~~SOIVSYFY~~FLKFN~~KD---DQS-~~QOKSVET~~KEDMN-V~~KPFNS~~NKKK~~RDDFEN~~ITNY

Consensus (71) HQFQKQAI~~SVLHEM~~IQOIFNL~~FSTKDSSAWEDETL~~LDKFYTELYQ~~QNLNDE~~ACVMQEVGVIESPLMYED

141 210

IFNB2 (140) LR~~LQVKMYFRRI~~HDYLE-NQD~~YSTCAWATVQVEIS~~RC~~LFFVFS~~TE~~KLSKQGRPL~~NDMQELTTEFRSPR

IFNB (139) SSL~~HLKRYGRIL~~HYLK-AKE~~YSHCAWTEVR~~VEIL~~RNEYFINRL~~TGYLRN-----

IFNalpha8 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha7 (139) FILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha6 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha5 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha4b (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha21 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha2 (138) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha16 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha14 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha13 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNalpha10 (139) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

IFNomega1 (139) PAL~~TLLRKYFQ~~IRVY~~LYK-EKKYSDCAWEVVRAEIMKSLF~~STNM~~QERLR~~SKDRDLGSS-----

IFNgamma (122) SY~~TDLNVQKAI~~HEL~~QVMAELS~~PA~~AKTGK~~---KR~~SQML~~---FR~~GRRASQ~~

Consensus (141) SILAVRKY~~FORITLYLT~~-EKKYSSCA~~WEVVRAEIMRSF~~SL~~SLINLQKRL~~KSKE-----

Figure 4

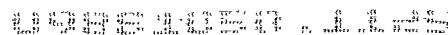


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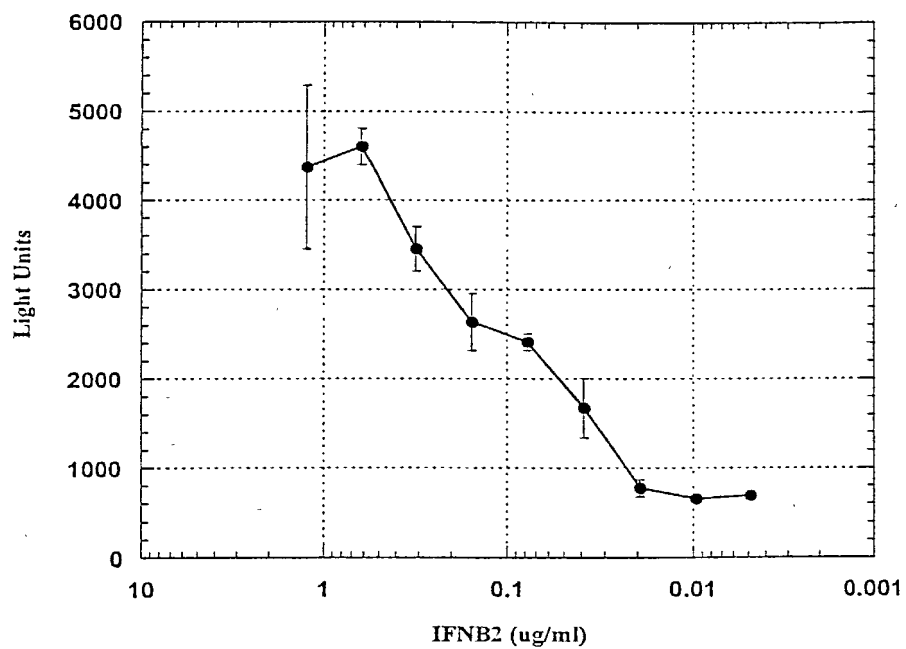
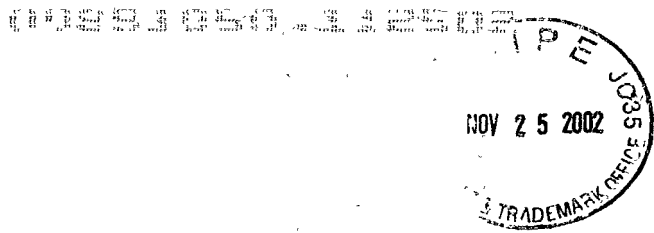
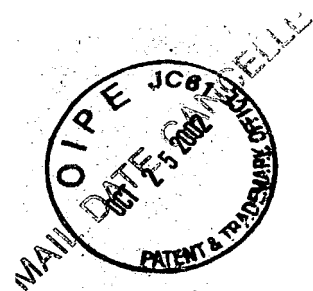


Figure 6

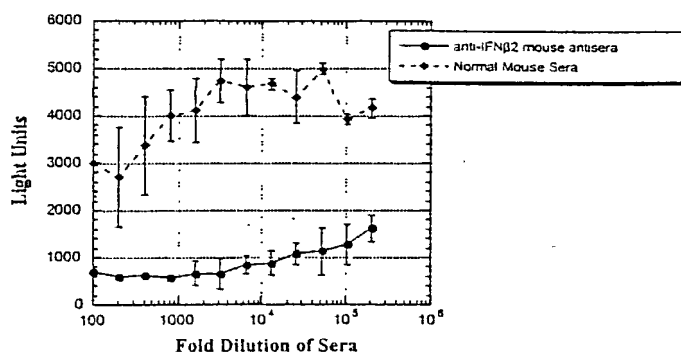
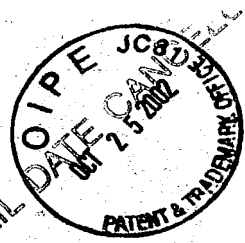
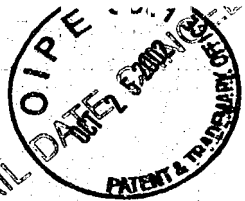


Figure 7



4481050.112402

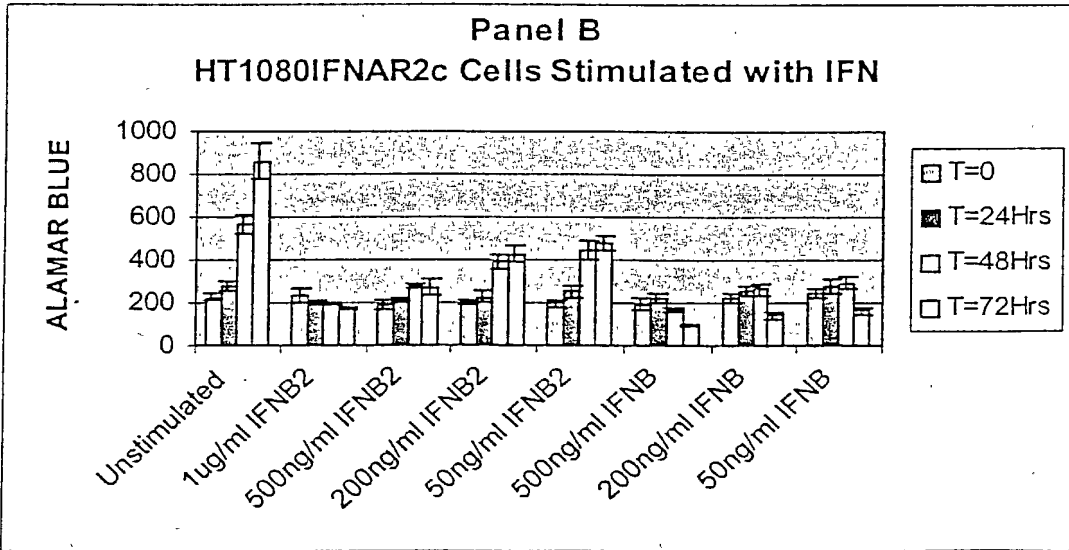
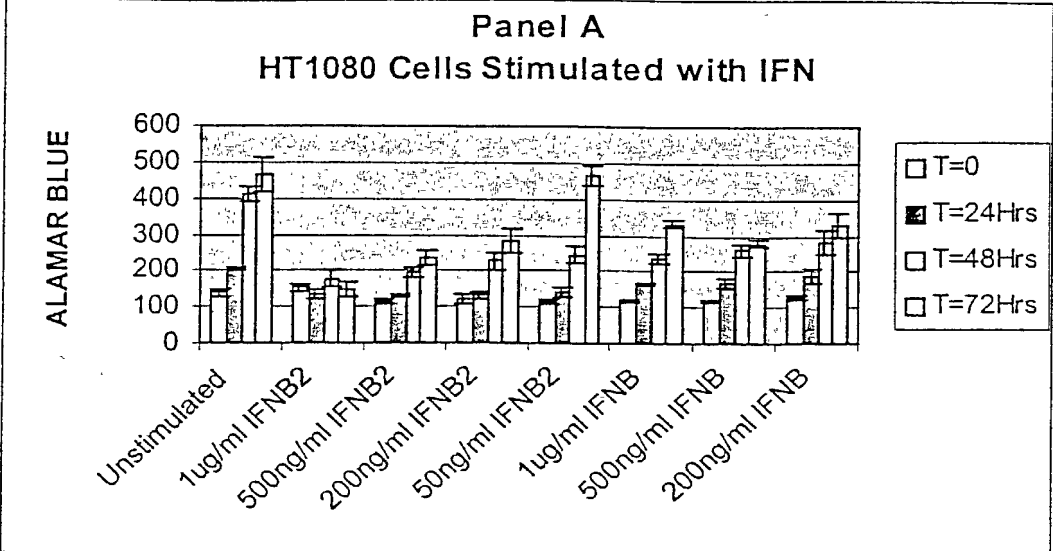


Figure 8

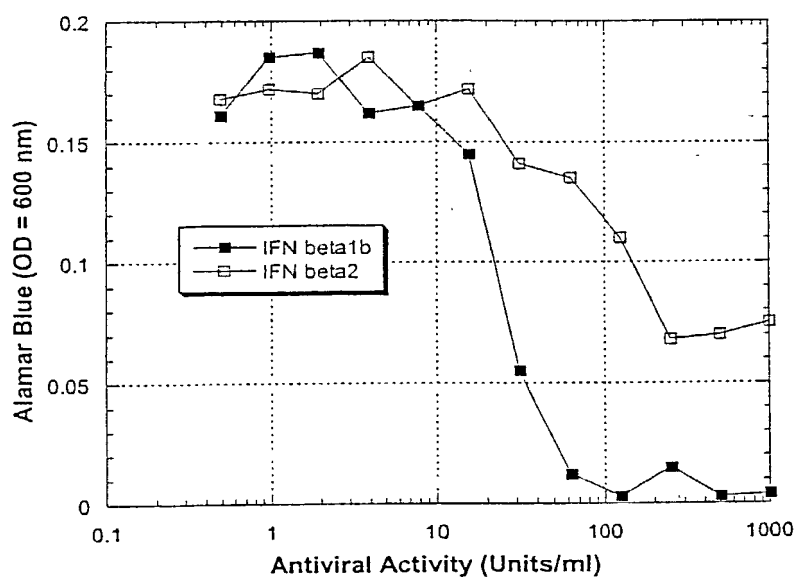
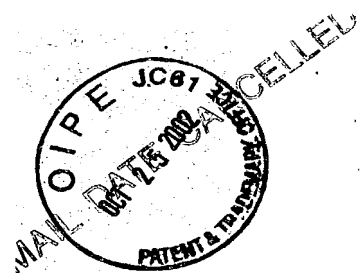


Figure 10



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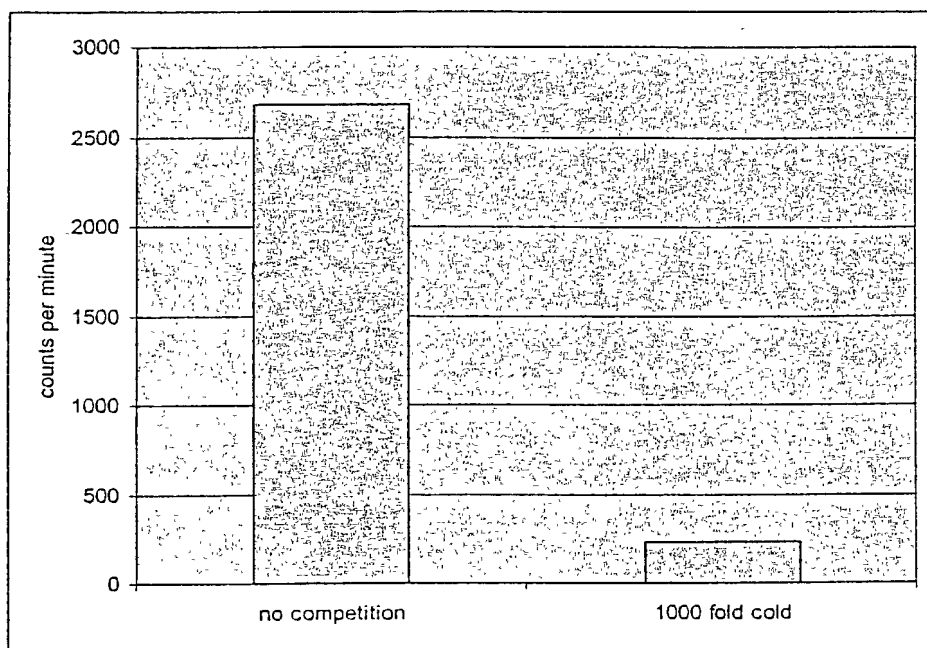
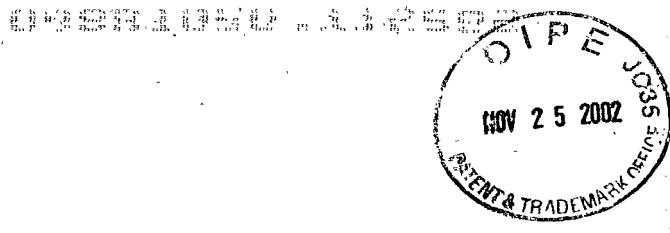
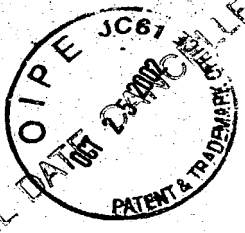
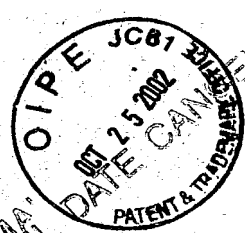


Figure 11



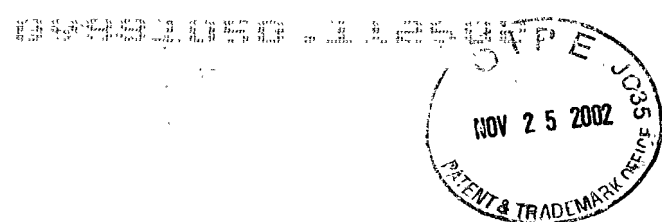
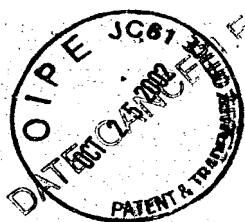
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241 taatgtgtaa acctggagaa atgacattag aaaacgaaag ctacaaaaga gaacactctt
301 caaaataatc tgagatgcat gaaaggcaaa cattcactag agctggaatt tccctaagtc
361 tatgcaggga taagtagcat atttgacctt cacc

Figure 12



361 atgatt atcaagcact tctttggaac
421 tgtgttggtg ctgctggcct ctaccactat cttctctcta gatttgaac tgattatctt
481 ccagcaaaga caagtgaatc aagaaagttt aaaactcttg aataagttgc aaaccttgtc
541 aattcagcag tgtctaccac acaggaaaaa cttcttgctt cctcagaagt ctttgagtcc
601 ttaactgtac caaaaaggac acactctggc cattcttcat gagatgct

Figure 13



MIKHFFGTVLVLLASTTIFSLDLKLIIFQQRQVNQESLKLLNKLQTLISIQ
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Figure 14

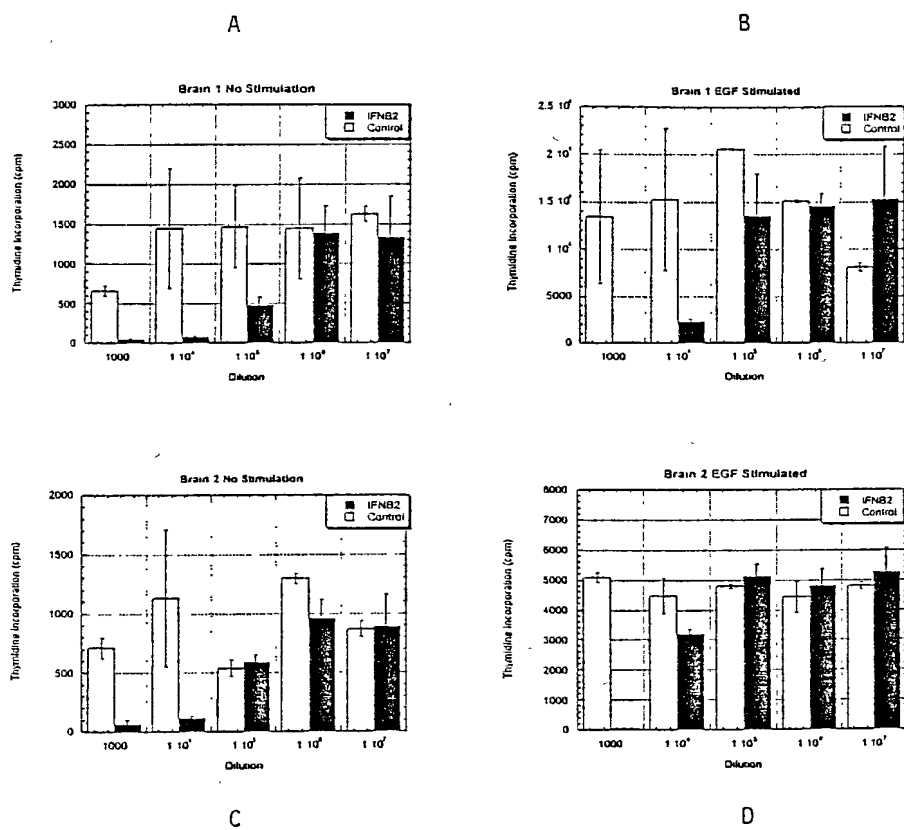
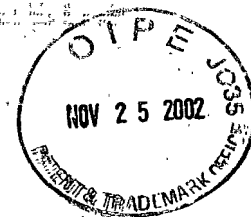
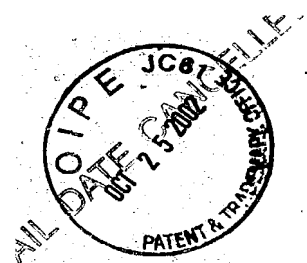


Figure 15